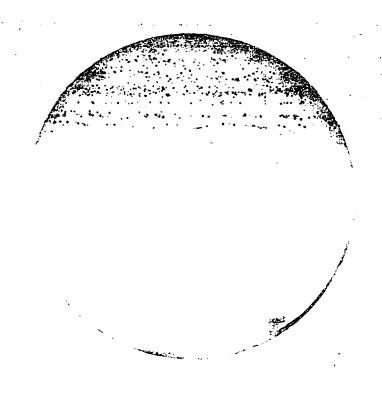
OPERATIONS PLAN 3410-81



6 MARCH 1991

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CINCAS CRLAM 3410-81, 6 March 1981

HEADQUARTERS, AEROSPACE DEFENSE COMMAND PETERSON AIR FORCE BASE, COLORADO 80914 6 March 1981

CIHCAD OPLAN 3410-81 PLAN SUMMARY

- 1. PURPOSE. OPLAN execution will provide support to NASA during the various phases of the Space Shuttle mission. When implemented, this plan provides for the basic support concepts contained in the Department of Defense (DOD) Overall Plan for Space Shuttle Operations (Orbital Flight Test) and the Department of Defense Manager's Space Shuttle Support Operations Plan (Orbital Flight Test).
- 2. COMDITIONS FOR IMPLEMENTATION. Secution of this plan will be directed by CINCAG prior to the First Space Shuttle Off mission. It shall remain in effect throughout the life of the Space Transportation System. Implementation of this plan will be accomplished through publication of a CINCAO Space Shuttle Support Implementation Plan thirty days prior to the first Space Shuttle Off mission.
- OPSEC. To protect information revealing operational capabilities of ADCOM, information contained herein will be disseminated only to those agencies and personnel whose official duties specifically require knowledge of this plan.

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HEADQUARTERS, AEROSPACE DEFENSE CUMMAND PETERSON AIR FURCE BASE, COLOPADO 80914 6 Harch 1981

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CINCAD OPLAN 1410-81 ACRONYMS/ABBREVIATIONS

.. ..

ADCOM	Aerospace Defense Command	
ADIC	Aerospace Defense Command Intelligence Center	
ASCC	Alternate SPACE Computation Center, Eglin AFB FL	
AUTODIN	Department of Defense Automatic Digital Information Network	
· AUTOSEVOCOM ·	Department of Defense Automatic Sequre Voice Network	
AUTOVON	Department of Defense Automatic Voice Network	
BCF	Backup Computational Facility, Dahlgren, VA	
CINCAD	Commander-in-Chief, Aerospace Defense Command Colorado Springs, CO	
COMBC	Computation of Hiss Between Orbits	
conus .	Continental United States	
СР	ADCOM Command Post	
ces	Communications System Segment	
DDMS	Department of Defense Manager's Space Shuttle Support Office Patrick AFR FL	
SOY	ADCOM Space Operations Directorate (ADCCM, J-37)	
ECDET	Early Orbit Determination	
ET	External Tank	
FRAG CRD	Fragmentary Order	
· ILAM	Initial Launch Alert Mespage	
JSC	Johnson Space Flight Center, Houston TX	
£ (C++ oc +)	Landing time referenced minus or plus with minutes, hours, or days	
MCC	Mission Control Center, Johnson Space Center, Houston TX	
нис	Missile Warning Center	
NASA National Aeronautics and Space Administration, Washington		
OAL	Orbital Analyst Leader	
CASD/ PA	Office of the Assistant Secretary of Defense, Public Affairs	
SET	Orbital Flight Test	

OPLAN Operations Plan

OPSEC Operations Security

OF OFFICE Vehicle

SCC EPADGC Computation Center

SITREPS Situation Reports

SLF Shuttle Lending Facility, Kennedy Space Center FL

SPADATS Space Detection and Tracking System

SPADOC Space Defense Operations Canter

SSC Space Surveillance Controller

STS Space Transportation System

SVO Space Surveillance Officer

T (- or +) Launch time referenced minus or plus with minutes, hours, or days

TIP Tracking and Impact Prediction

PEADQUARTERS, AEROSPACE DEFENSE COMMAND PETERSON AIR FORCE BASE, COLOHADO 40914 6 March 1981

CINCAD OPLAN 1410-A1 CINCAD SPACE SHOTTLE SUPPORT OPERATIONS PLAN 1410-81

- REFERFACES: a. Department of Defense Overall Plan for Space Shuttle Operations (Orbital Flight Test), 24 August 1979
 - Department of Defense Manager's Space Shuttle Support Operations Plan (Orbital flight Test), 15 July 1980
 - c. Mission Operations Systems Plan
 - d. Shuttle Operation Concept, DOD, STS, Draft, March 1979
 - e. MOA Goddard Space Flight Center (GSFC) and NORAD, 15 June 1965
 - SECDFF Memo, 16 Merch 1977, "Assignment of Responsibilities of the Department of Defense Manager for Space Shuttle Support Operations"
 - System Operational Concept for the Space Defense Operations Center (SPADOC), 2 June 1980
 - n. Assistant SECDEF (ASD/C31) letter to CINCAD, 1 March 1979.
 - .. ADCOM/JSC HOA for Space Defense Operacions
 - Applicable DCD 9230 series Directives and USAF and ADCOM 190 series Regulations, Manuals, and Supplements
 - KASA/JCS Requirements for NORAD/ADCOM Support of STS-1, 26 Nov 80.

TABY TROUNTERTION: ANNEX A

- 1. SITUATION. The National Acconductor and Space Administration (NASA) with Department in Defense (DDD) participation, is developing a national Space Transportation System to provide the United States the capability to deliver payloads of personnel, equipment, supplies and other spacecraft to and from space. The design, development, test and evaluation phase of the Space Shuttle Program is well underway. A series of Space Shuttle Orbiter Approach and Landing Tests have been completed at Edwards Air Force Base, CA. The next major Space Shuttle Flight test activities will consist of a series of Orbital Flight Test (OTT) missions scheduled for the Filight-1962 period. NASA is responsible for the OTT program. This plan identifies the support ADCOM is tasked to provide for space shuttle operations.
- 2. MISSION. To provide NASA support as specified under already existing missions and special support as specifically requested by NASA.

1. EXECUTION.

Concept of Operations. ADCOM will provide operational support specified in ANNEAC during the execution phase of Shuttle missions.

(1) General. This plan will be executed upon direction from CINCAD. The Space Operations Directorate (J-3Y) will be the prime point-of-contact for all shuttle operational support provided by ADCOM and will develop and publish a CINCAD Space Shuttle Support Implementation Plan 30 days prior to the first OFT mission.

(2) Tasks. ADCOM wills

- (a) Provide Early Orbit Determination (EODET), Tracking and Impact Prediction (TIP), and Computation of Miss Between Orbits (COMBO) support as specifically requested by MASA in reference).
- (b) Prepare a separate datasted implementation Plan outlining the specific tasking of the support described in paragraph (2)(a) shows.

4. ADMINISTRATION AND LOGISTICS.

- a. Concept of Support. Routine support for ADCOM day-to-day operations will be used.
 - a. Logistics. Routine support for ADCOM day-to-day operations will be used.
 - c. Personnel. Routine support for ADCON day-to-day operations will be used.
 - d. Public Affairs. ANNEX P.
 - e. Communications. ANNEK K.
 - . System Evaluation. ANNEX U.

JAMES V. HARTINGER Lieutenapt General,

Commander in Chief

ANNEXES:

- A Task Organizations
- C Operations
- r Public Affairs
- R Communications Electronics Computer
- L Operations Security
- U System Evaluations
- T Training and Exercises
- 3 Distribution bist

RUCE K. DACHI Major General, USAF

HEADQUARTERS, AEROSPACE DEFENSE COMMAND PETERSON AIR FORCE BASE, COLORADO 80914 6 March 1981

ANNEX A TO CINCAD OPLAM 1410-81 TASK ORGANIZATIONS

• • • •	
ORGANIZATION	REDHANDER
ADCOM/J-3X5	CINCAD
ADCOM/J-3Y	CINCAD
ADCOM/ PA	CINCAD
ADCON/3-32	CINCAD
ADCOM/BCF -	CINCAD .
ADCOM/ASCC	CINCAD
ADCOM/J-3F	CINCAD
ADCOM/J-3J	CINCAD
ADCOM/KR	CINCAD
	RTINGER Genaral, USAF n Chief

BEFICIAL:

SE K. BRCWN Major General, USAF Operations (J-3) ANNEX C TO CINCAD OPLAN 1410-81 OPERATIONS

1. SUPPORT CATEGORIES

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This plan identifies areas of operation, addresses support in each major category, and assigns specific tasks and responsibilities where applicable. For each it the major support caregories, refer to the appropriate section for amplifying information. Operational support provided to NASA by ADCOM, through the Space Operations Directorate (J-3Y), falls into the following major categories:

- a. Early Orbit Determination (EDDET)
- b. .. Tracking and Impact Prediction (TIP)
- Computation of Miss Retween Orbits (COMBC)

.. AREAS OF SPERATION

- . Space Operations Directorate (J-3Y)
- c. Space Defense Operations Center (SPADOC)
- 2. SPADGC Computation Center (SQC)
- 1. Aurospace Defense Command Intelligence Jenter (ADIC)
- e. Milsile Warhing Center (HWC)
- . ACCCM Command Post (CP)
- :. Space Detection and Tracking System (SPACATS)

1]. EARLY OFBIT DETERMINATION (ECCET):

EODET provides the use, upon request, with neur-earth orbit insertion verification data. ECOET support is normally requested by the user in the vehicle information message. The data is usually provided to the user verbally and includes time, azimuth, elevation, range, and range rate at adjustion. Cruso-over and reministron. All voice data will be followed by a hardcopy message if appropriate.

4. TRACKING AND IMPACT PREDICTION (TIP):

Tracking and Impact Prediction satellites are those satellites that may survive reentry into the earth's atmosphere. Those objects that may survive reentry are payloads, rocket bodies, platforms, and pieces of debris larger than I square meter.

- a. The SPACOC Computation Center (SCC) has the mission of decay prediction for certain satellites as part of Project TIP.
- 5. The TIP program provides specialized processing for the terminal phase of natural orbit decay. TIP output generated to and the Tricking and Ampact Prediction mission includes impact predictions, look angles and TIP sleet messages.
- c. ADCOM will provide NASA with TIP support in the form of limited anomalous reentry data for the external tank.

ł

5. COMPUTATION OF HISE RETWEEN ORBITS (COMBO):

CONBO is an applications program used to calculate a close approach between a cataloged satellite of interest and other cataloged orbiting objects. ADCOM will provide NASA with COMBO support consisting of relative ephemeris points, relative minisum points, the absolute misinum point, periods of close proximity, or any combination of these, as specifically requested by NASA.

 NASA will provide vectors according to support outlined in reference j and as subsequently negotiated between NASA and A/J-3Y.

> JAMES V. HARTINGER Lisutenant General, USAF Commander in Chief

OFFICIAL:

المراجعة الم

TERENCE J. O'BOURKE, Lieutenant Colonel, USAF Director, Space Operations MEADQUARTERS, AEROSPACE DEFENSE COMMAND PETERSON AIR FORCE BASE, COLORADO 83914 6 March 1981

ANNEX | TU CINCAD OPLAN 3410-61

1. SITUATION:

- a. <u>General</u>. This Section provides general guidance and outlines responsibilities concerning acquisition, handling and release of photographic, written and recorded materials.
- b. Assumptions. Guidance on the release of information and response to news media inquiries will be provided by the Office of the Assistant Secretary of Defense, Public Affairs (OASD/PA).
- 2. MISSION. To inform the public of ADCOM's support of Space Shuttle operations.
- 3. EXECUTION:

Concept of Operations. Public Affairs activities will be carried out under the fuidance and policy of GASD/PA. The responsibility for planning, coordinating and directing Public Affairs activities relating to ADCOM support of Space Shuttle operations will remain with the Director, ADCOM Public Affairs.

- 4. TASKS: ADCCM Director of Public Affairs will:
 - a. Provide Public Affairs liaison with lateral and higher headquarters.
- D. Maintain coordination on the release of information with GASD/PA and the National Aeronautics and Space Administration office of Public Affairs.
- c. The ADCOM Director of Public Affairs will serve as the office of primary responsibility for release of all public and internal information concerning ADCOM support of Space Shuttle operations in accordance with guidance provided by OASD/PA.

JAMES V. HAPTINGER Lieutenant General, USAF Commander in Chiet

DEFICIAL:

FFED L. WATKINS, Colonel, USAF Director of Public Affairs

MEADQUARTERS. ASSOSPACE DEFENSE COMMAND PETERSON AIR FORCE BASE, COLURADO 80914 & March : 481

ANNUA E TO CINCAD OPLAN 1410-91 COMMUNICATIONS - ELECTRONICS - COMPUTER

1. GENERAL. This Annex describes the communications support, both existing and planned, to be used by ADCOM in support of the Space Shuttle missions. It also identifies the support required for ADCOM elements and establishes general operating procedures to be used during the execution phase of each mission.

2. EXECUTION:

Operational Concept. Communications requirements to fulfill NASA's requests for support are mission esemblat and meeded on test, exercise and evaluate ADCOR's shuttle support capability

3. TASKE. ADCOM wills

No later than 1 Apr 81, provide secure teletype circuit Data Speed 40 for up to and including collateral secret.

> JAMES V. HARTINGER Lieutenant General, USAP Commander in Chief

Appondis 1- Para elle l Operations

OFFICIAL:

WINSTON D. FOWERS. Brigadier General, USAF DCS/Communications, Electronics and Computer Resources

READQUARTERS, AEROSPACE DEFEMSE CORMAND PETERSON AIR FORCE BASS, COLORADO 80914 6 RECER 1981

APPENDIX 1 TO ANNEX R TO CINCAD OPLAN 1410-61 PARALLEL OPENATIONS

REFERENCES: M/AR 55-49, 24 July 1980

1. PURPOSE. To provide a 65

2. GENERAL.

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HEADQUARTERS, AEROSPACE DEFENSE COMMAND PETERSON AIR FONCE BASE, COLORADO 80914 6 March 1961

ANNEX L TO CINCAD OPLAN 1410-61 OPERATIONS EXCURITY

- REFERENCES: a. Joint Operations Planning System (JOPS) Vol I, ANNEX L
 - b. JCS Pub 18 "Policy, Concepts, and Standards for Operations Security"
 - c. N/AR 55-64, H/A Operations Security Guide
 - d. AFR 55-30, Operations Security
- 1. GENERAL. Provide guidance for the secure planning and conduct of support functions as outlined in the mission of the basic plan.
- 2. RESPONSIBILITIES FOR OPGEC. OPSEC responsibility lies with the command. However, every individual associated with or aware of the CPLAN must assist in assuring protection of the planning, execution and post operation phases.

OFFICIAL:

ROBERT M. WILSHIRE, Colonel, USAF Director, Operations Plans

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MEADQUARTERS, AEROSPACE DEFENSF COMMAND PETERSON AIR FORCE BASE, COLORADO 80914 6 Rarch 1881

ANNEX U TO CINCAD OPLAN 1410-81 SYSTEM EVALUATIONS

- l. ${\tt SITUATION}_1$ This section describes the Evaluation support to be provided by ADCON, and establishes general evaluation guidelines.
- CONCEPT OF OPERATIONS: ADCOM will be propered to evaluate, review and insure
 the adequacy of checklists, supporting plans, and craw performance.
- J. TASKS: ADCOM will:
- a. Develop evaluation criteria for the purposes of improving/evaluating space shuttle support training programs, and to assess the operational readiness of trained crews/individuals.

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d. Review stateles scenarios, lesson prans, lectures, training aids, and visual aids.

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JAMES V. HARTINGE Lieutenant General, USAP Commander in Chief

OFFICIAL:

Tracks & Scall F.
CHARLES B. BEALL, Jr., Lieutenant Colonel, USAF
Director, Standardization and Evaluation

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HEADQUARTERS, AEBOSPACE DEFENSE COMMAND PETERSON AIN FONCE BASE, COLORADO 80914 6 March 1981

ANNEX Y TO CINCAD OPLAN 1410-61 TRAINING AND EXFRCISES

 SITUATION: This section describes the planned training/exercise support to be provided by ADCOM, and establishes general operating procedures unitch will be used during the esecution of each mission.

_ ___

2. CONCEPT OF CPERATIONS:

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3. TASKS: ADCOM Will:

- a. Develop/modify operations training to satisfy any special/additional requirements specified in this plan.
- b. Develop exercises, lesson plans, lectures, training aids, and visual aids necessary to satisfy the above.

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JAMES V. HARTINGER Lieutenant General, USAF Commander in Chief

Committee of the commit

OFFICIAL:

OHN W. YOCUM, Colonel, USAF birector, Training and Exercise

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ANNEX 2 TO CINCAD OPEAN 1410-81 DISTRIBUTION

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OTHER DOMS, Patrick AFB FL FASTMAC-ROPN Space Division, CC Space Division, 4V SAMTO, CC HO AFTEC, DO AFSC/DO HO SAC, DO HO SAC, DO HO SAC, XP/SX FAA-ATC System Command Center ADCOM ALCOP, Malmstrom AFB HT 20 MWS Eqlin AFB FL NAVSPASUR, Dahlgren, VA HO USAFXXOORS AFTEC/DLAN Vandenberg AFB CA 93437	5 1 1 1 1 1 1 2 2 ea
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ROBERT M. WILSHIRE, Colonel, USAF Director, Operations Plans